



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 13, 2019

Gordon Sargent
Senior Regulatory Scientist
AGT Division
NuFarm Americas Inc
4020 Aerial Center Parkway
Morrisville, NC 27560

Subject: Registration Review Label Mitigation for Metalaxyl
Product Name: Spirato IM 413 FS
EPA Registration Number: 55146-117
Application Date: 06/26/2018
Decision Number: 555115

Dear Mr. Sargent:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Metalaxyl Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Darius Stanton by phone at 703-347-0433, or via email at Stanton.Darius@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington".

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

IMIDACLOPRID	GROUP	4A	INSECTICIDE
METALAXYL	GROUP	4	FUNGICIDE
FLUDIOXONIL	GROUP	12	FUNGICIDE

SPIRATO™ IM 413 FS

For use as a seed treatment to protect seed and seedlings of listed legume vegetables (including soybeans) against listed insect and crop diseases.

ACTIVE INGREDIENT:

Imidacloprid..... 27.41%
Metalaxyl 6.85%
Fludioxonil..... 1.11%

OTHER INGREDIENTS:64.63%
TOTAL: 100.00%

Contains 2.67 lbs imidacloprid, 0.67 lbs metalaxyl, and 0.11 lbs fludioxonil per gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 55146 - 117
EPA EST. NO. _____

MANUFACTURED FOR
NUFARM AMERICAS INC.
AGT DIVISION
11901 S. Austin Avenue
Alsip, IL 60803



NET CONTENTS _____ GAL. (_____ Liters)
[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

ACCEPTED
Sep 13, 2019
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 55146-117

FIRST AID

IF SWALLOWED

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- **DO NOT** induce vomiting unless told to by a poison control center or doctor.
- **DO NOT** give anything by mouth to an unconscious person.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves: barrier laminate or nitrile rubber \geq 14 mils or neoprene rubber \geq 14 mils or Viton \geq 14 mils.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to birds, fish and aquatic invertebrates. For terrestrial use, **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment wash water or rinsate. Exposed treated seeds may be hazardous to birds. Cover or incorporate spilled treated seeds.

Imidacloprid is highly toxic to bees. Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.

Groundwater Advisory: Metalaxyl is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For use in commercial seed treatment facilities, or as an end-use seed treatment on agricultural establishments at, or immediately before, planting. This product is to be used in liquid or slurry treaters only.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Maximum usage when applying both metalaxyl- and mefenoxam-containing products to the same crop within the same season: Do not apply more than the maximum yearly total application rate for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the **restricted-entry interval (REI)** of **12** hours.

Exception: If the seed is treated with the product and the treated seed is soil-injected or soil -incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical resistant gloves: barrier laminate or nitrile rubber ≥ 14 mils or neoprene rubber ≥ 14 mils or Viton ≥ 14 mils
- Shoes plus socks

ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application. The following plant-back intervals must be observed for listed crops.

ROTATIONAL PLANT-BACK INTERVALS*				
IMMEDIATE PLANT-BACK				30-DAY PLANT-BACK
Artichoke	Crambe	Oats	Soybean	Cereals, including buckwheat rice
Barley	Cucurbits	Okra	Strawberry	
Borage	Eggplant	Pepinos	Sugar beet	
Brassica (cole)	Flax	Pepper	Sunflower	
leafy vegetables	Groundcherry	Popcorn	Tomatillo	
Bulb vegetables	Leafy petiole vegetables	Potato	Tomato	
Canola	Leafy vegetables	Rapeseed	Triticale	
Cilantro	Legume vegetables	Rye	Root and Tuber vegetables	
Corn, Field	(succulent or dried,	Safflower	Watercress	
Corn, Sweet	including Soybean)	Sorghum	Wheat	
Cotton	Millet			
Cranberry	Mustard seed			

* Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

* For all other crops not listed on an imidacloprid label, or for crops for which no tolerance for the active ingredient has been established, a 12-month plant-back interval should be observed.

NOTIFICATION of the crop rotational restriction must be conveyed to the grower by appropriate seed tag labeling or bag printing on all seed units.

PRODUCT INFORMATION

SPIRATO IM 413 FS is a seed treatment product that protects against certain early season insects, soil-borne and seed-borne diseases of listed crop plants. SPIRATO IM 413 FS contains the active ingredients imidacloprid, metalaxyl and fludioxonil.

Imidacloprid is a systemic seed treatment insecticide in the neonicotinoid class. Imidacloprid protects against listed chewing and sucking insect pests.

Metalaxyl is a fungicide which protects against *Pythium*, *Phytophthora* and systemic downy mildew.

Fludioxonil is a fungicide which protects against *Fusarium*, *Rhizoctonia*, and suppresses seed-borne *Sclerotinia* and *Phomopsis* spp.

When using this product on-farm for seed treatment prior to planting, you must comply with the following USE RESTRICTIONS. If treated seed will not be immediately planted, but will be stored for planting at a later date, you must label the treated seed according to the "SEED BAG LABELING REQUIREMENTS" specified on this label.

USE RESTRICTIONS

DO NOT use as a planter (hopper) box treatment.

CALIFORNIA: Only for use in commercial seed treatment facilities, not allowed for "on farm" use.

ON FARM TREATMENT: DO NOT apply this product through any type of irrigation system.

DO NOT use for feed, food, or oil purpose.

Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticides remain in the ethanol by-products that are used in agronomic practice.

Store away from feeds and foodstuffs.

Treated seed must be planted into the soil at a depth greater than 1 inch.

Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds that are spilled during handling.

Dispose of all excess treated seed. Leftover seed may be double sown around the headland or buried away from water sources in accordance with local requirements.

DO NOT contaminate water bodies when disposing of planting equipment wash water.

In the event of a crop failure or harvest of a crop grown from SPIRATO IM 413 FS treated seed, the field may be replanted immediately to artichoke, barley, Brassica (cole) leafy vegetables, canola, cilantro, corn (field or sweet), cotton, cranberry, cucurbits, eggplant, groundcherry, leafy petiole vegetables, leafy vegetables, legume vegetables (succulent or dried), mustard seed, oats, okra, pepinos, pepper, popcorn, potato, rapeseed, sorghum, soybean, strawberry, sugarbeets, tomatillo, tomato, triticale, turnip greens, root and tuber vegetables, watercress, and wheat. For cereals including buckwheat, millet, rice and rye and for safflower; the minimum plant-back interval is 30 days from the date SPIRATO IM 413 FS treated seed was planted. Cover crops for soil building or erosion control may be planted at any time; but do not graze or harvest for food or feed. For all other crops not listed on an imidacloprid, metalaxyl, or fludioxonil label, or for crops for which no imidacloprid, metalaxyl, or fludioxonil tolerance for the active ingredient has been established, a 12-month plant-back interval must be observed.

DO NOT allow children, pets, or livestock to have access to treated seed.

The maximum application rate (all imidacloprid uses: seed treatment, foliar application, soil application) per acre per year for imidacloprid is 0.5 lbs. **DO NOT** use more than 0.5 lb (226.8 mg) per acre per year.

The maximum yearly total application rate for metalaxyl/mefenoxam for all applications (including seed treatments, foliar applications, soil applications) is 12.3 lb per acre per calendar year. **DO NOT** apply more than 12.3 lb total of the active ingredients, metalaxyl and mefenoxam per acre per calendar year

DO NOT apply a neonicotinoid insecticide within 45 days of planting seed treated with SPIRATO IM 413 FS.

RESISTANCE MANAGEMENT RECOMMENDATIONS

SPIRATO IM 413 FS contains imidacloprid, a Group 4a insecticide; metalaxyl, a Group 4 fungicide and, fludioxonil, a Group 12 fungicide. Imidacloprid belongs to the neonicotinoid class of chemistry. Metalaxyl belongs to the phenylamide class of chemistry. Fludioxonil belongs to the phenylpyrrole class of chemistry.

Pest populations may contain individuals naturally resistant to active ingredients in SPIRATO IM 413 FS and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as an alternation with insecticides and fungicides of a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Nufarm encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

For additional information on Fungicide Resistance Management:

- Contact Nufarm Americas Inc representatives at 1-800-345-3330
- Contact your local extension specialist or certified crop advisor.
- Visit the Insecticide Resistance Action Committee (IRAC) at <http://www.irac-online.org>. Visit the Fungicide Resistance Action Committee (FRAC) at <http://www.frac.info>

MIXING INSTRUCTIONS

Mix thoroughly before use or use entire container at one time. All tank mixes should be pre-tested to determine physical compatibility between formulations. Follow the most restrictive precautions and limitations on labeling of all products used in mixtures.

Apply SPIRATO IM 413 FS as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of SPIRATO IM 413 FS into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

IMPORTANT: Always re-circulate SPIRATO IM 413 FS thoroughly before using. The typical density of SPIRATO IM 413 FS is 9.7 lbs per gallon. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment. Follow the manufacturer application instructions for the seed treatment equipment being used.

Certain crops require addition of inoculants when the seed is treated or planted. SPIRATO IM 413 FS is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Nufarm Americas representative for directions before applying SPIRATO IM 413 FS with inoculants.

Under certain disease conditions, additional amounts of fungicides may be required. When needed, apply additional SEBRING 318 FS (metalaxyl) and SPIRATO 480 FS (fludioxonil) according to the label **USE SPECIFICATIONS**. Other tank mix partners may be used with SPIRATO IM 413 FS; however, the user must consider the use rate, formulation, seed and crop safety factors and compatibility of each product to be mixed when determining the total application volume.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fluid ounces per 100 pounds of seed. More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution.

Allow seed to dry before bagging.

Follow planter manufacture specifications for use of talc or other hopper box additives at planting.

Seed must be completely dry before adding to planter.

SPIRATO IM 413 FS contains an EPA approved dye/colorant that imparts an unnatural color to the seed as required by the Federal Seed Act.

Treated seed must not be used for or mixed with food or animal feed or processed for oil. Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act.

USE INFORMATION

TARGET INSECTS (All Uses)

Early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

SPIRATO IM 413 FS also protects against pea leaf weevil in peas.

When treated according to the following directions for post-planting protection against listed pests, SPIRATO IM 413 FS will also provide protection during post treatment storage of the seed against damage from the following stored grain insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

If seed to be treated has existing infestations of stored grain insects, fumigate the seed prior to treating with SPIRATO IM 413 FS and bagging.

TARGET DISEASES (All Uses)

Protection against damping-off and seed-borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and *Phytophthora* root rot.

SPIRATO IM 413 FS also suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

APPLICATION DIRECTIONS

SEED AND POD VEGETABLES (Black-eyed peas, Chickpeas, Cowpeas, Edible soybeans, Garbanzos, Green beans, Kidney beans, Lentils, Lima beans, Lupines, Navy beans, Pole beans, Snap beans, String beans, Wax beans):

RATE OF SPIRATO IM 413 FS			OPTIONAL TREATMENT See Remarks section below WHEN TO ADD ADDITIONAL SEBRING 318 FS	
			ADDITIONAL SEBRING 318 FS (metalaxyl)	
Fl. Oz. / 100 lb. of seed	Grams AI / 100 kg of seed		Fl. Oz. / 100 lb. of seed	Grams AI / 100 kg of seed
3.0	62.4 15.6 2.5	imidacloprid metalaxyl fludioxonil	0.375 to 0.75	7.8 to 15.6
REMARKS				
WHEN TO ADD ADDITIONAL SEBRING 318 FS (metalaxyl)				
Add additional SEBRING 318 FS if target fields have a history of high <i>Phytophthora</i> pressure, add additional SEBRING 318 FS as directed in the label use specifications. The additional SEBRING 318 FS may reduce compatibility with some rhizobia inoculants. Consult with the maker of rhizobia inoculants before adding the additional SEBRING 318 FS.				
RESTRICTIONS				
CA RESTRICTION: Seed and Pod Vegetables seed treated in California must be destined for planting in states other than California and is not to be planted in California.				

PEAS (field and garden):

RATE OF SPIRATO IM 413 FS			OPTIONAL TREATMENT					
			See Remarks section below WHEN TO ADD ADDITIONAL SEBRING 318 FS					
Fl. Oz. / 100 lb. of seed			Grams AI / 100 kg of seed		ADDITIONAL SEBRING 318 FS (metalaxyl)		ADDITIONAL SPIRATO 480 FS (fludioxonil)	
					Fl. Oz. / 100 lb. of seed	Grams AI / 100 kg of seed	Fl. Oz. / 100 lb. of seed	Grams AI / 100 kg of seed
1.5			31.2	imidacloprid metalaxyl fludioxonil	0.375 to 1.125**	7.8 to 23.2	0.04	1.25
			7.8					
			1.25					
REMARKS								
WHEN TO ADD ADDITIONAL SEBRING 318 FS (metalaxyl)								
Add additional SEBRING 318 FS if target fields have a history of high <i>Phytophthora</i> pressure, add additional SEBRING 318 FS as directed in the label use specifications. The additional SEBRING 318 FS may reduce compatibility with some rhizobia inoculants. Consult with the maker of rhizobia inoculants before adding the additional SEBRING 318 FS.								
**Use the higher listed rate (1.125 Fl. Oz. / 100 pounds of seed) for systemic downy mildew protection.								
WHEN TO ADD ADDITIONAL SPIRATO 480 FS (fludioxonil)								
Add additional SPIRATO 480 FS if planting location has a history of high <i>Fusarium</i> or <i>Rhizoctonia</i> pressure, add additional SPIRATO 480 FS as directed in the label use specifications.								
RESTRICTIONS								
CA RESTRICTION: Peas (field and garden) seed treated in California must be destined for planting in states other than California and is not to be planted in California.								

SOYBEANS:

RATE OF SPIRATO IM 413 FS							OPTIONAL TREATMENT	
							See Remarks section below WHEN TO ADD ADDITIONAL SEBRING 318 FS	
Use Rate based on 3000 seeds / lb (150,000 seeds / 50 lb bushel)							ADDITIONAL SEBRING 318 FS (metalaxyl)	
Fl. Oz. /			ml / 1,000 seeds	Grams AI / 100 kg of seed	mg AI / Seed		Fl. Oz. / 100 lb. of seed	Grams AI / 100 kg of seed
100 lbs seed	1,000 Seeds	140,000 seeds						
3.0	0.01	1.4	0.2957	62.4 15.6 2.5	0.0946 0.0238 0.0038	imidacloprid metalaxyl fludioxonil	0.375 to 0.75	7.8 to 15.6
REMARKS								
WHEN TO ADD ADDITIONAL SEBRING 318 FS (metalaxyl)								
Add additional SEBRING 318 FS if target fields have a history of high <i>Phytophthora</i> pressure, add additional SEBRING 318 FS as directed in the label use specifications. The additional SEBRING 318 FS may reduce compatibility with some rhizobia inoculants. Consult with the maker of rhizobia inoculants before adding the additional SEBRING 318 FS.								
IMPORTANT: To maintain mg ai / seed, adjust fluid ounces / 100 lb of seed in proportion to the actual seed count / lb compared to the standard number of seeds / lb for that crop; fluid ounces per number of seeds (i.e., 1000, 80,000, 140,000) does not need to be adjusted. For example if there are actually 2800 soybean seeds / lb use: $2800 \div 3000 \times 3.0 = 2.8$ fl. oz / 100 lb of seed.								

SEED BAG LABELING REQUIREMENTS

Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the federal seed act. The user of this product is responsible for ensuring that the seed bag meets all requirements under the federal seed act.

THE FEDERAL SEED ACT REQUIRES THAT BAGS CONTAINING TREATED SEEDS SHALL BE LABELED WITH THE FOLLOWING STATEMENTS.

- This seed has been treated with imidacloprid insecticide, metalaxyl and fludioxonil fungicide.
- **DO NOT** use for feed, food, or oil purpose.

THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON BAGS CONTAINING SEEDS TREATED WITH SPIRATO IM 413 FS:

- **Groundwater Advisory:** Metalaxyl is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.
- **Pollinator Precautions:** Imidacloprid is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Ensure that planting equipment is functioning properly in accordance with manufacturer specification to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds that are spilled during handling.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- **DO NOT** contaminate water bodies when disposing of planting equipment wash water.
- Dispose of seed packaging in accordance with local requirements.
- In the event of a crop failure or harvest of a crop grown from SPIRATO IM 413 FS treated seed, the field may be replanted immediately to artichoke, barley, Brassica (cole) leafy vegetables, canola, cilantro, corn (field or sweet), cotton, cranberry, cucurbits, eggplant, groundcherry, leafy petiole vegetables, leafy vegetables, legume vegetables (succulent or dried), mustard seed, oats, okra, pepinos, pepper, popcorn, potato, rapeseed, sorghum, soybean, strawberry, sugarbeets, tomatillo, tomato, triticale, turnip greens, root and tuber vegetables, watercress, and wheat. For cereals including buckwheat, millet, rice and rye and for safflower; the minimum plant-back interval is 30 days from the date SPIRATO IM 413 FS treated seed was planted. Cover crops for soil building or erosion control may be planted at any time; but do not graze or harvest for food or feed. For all other crops not listed on an imidacloprid, metalaxyl, or fludioxonil label, or for crops for which no imidacloprid, metalaxyl, or fludioxonil tolerance for the active ingredient has been established, a 12-month plant-back interval must be observed.
- **DO NOT** allow children, pets, or livestock to have access to treated seed.
- The maximum application rate (all imidacloprid uses: seed treatment, foliar application, soil application) per acre per year for imidacloprid is 0.5 lbs. **DO NOT** use more than 0.5 lb (226.8 mg) per acre per year.
- This seed has been treated with X mg imidacloprid, X mg metalaxyl, and X mg fludioxonil per seed.
- **DO NOT** apply a neonicotinoid insecticide within 45 days of planting seed treated with SPIRATO IM 413 FS.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticides remain in the ethanol by-products that are used in agronomic practice.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool place, **DO NOT** store in direct sunlight. Protect from freezing temperatures.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

[Note to Reviewer: The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container disposal [handling] instructions below that apply to your container type / size."

[Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container. DO NOT reuse or refill this container. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full of water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[Nonrefillable containers larger than 5 gallons]

Nonrefillable container. DO NOT reuse or refill this container. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full of water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[Refillable containers larger than 5 gallons]

Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

[Refillable containers for return to Nufarm]

Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1-800-345-3330 to arrange for return of the empty refillable container.

WARRANTY DISCLAIMER

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(RV_____)

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LABEL HISTORY

File Name	Revision Mark	Comment
055146-00RRT.20120620.SPIRATO_IM_413_FS	RV062012	Draft Label
055146-00117.20120726.MASTER	RV072612	Section 3- Approval
055146-00117.20120828.MASTER	RV082812	EPA Requested Revision- rotational crops update.
055146-00117.20180605.DRAFT	RV060518	Label updates for Metalaxyl Registration Review Interim Decision
055146-00117.20190601.DRAFT	RV_____	Label updates for Metalaxyl Registration Review Interim Decision
055146-00117.20190831.DRAFT	RV_____	Correct pagination